Project Stepstone

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9 December 2009

Capability Gaps Addressed

- **Intuitive and relatively easy mechanism to complete an Application for Equipment Frequency Allocation (DD FM 1494)**
- **Improved compliance checks to assure data quality**
- **Collaboration and workflow capabilities for certification process**
- **Certification process metrics to enable process improvement**

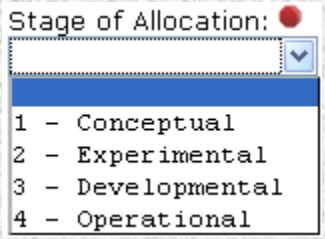
Spiral Release Approach

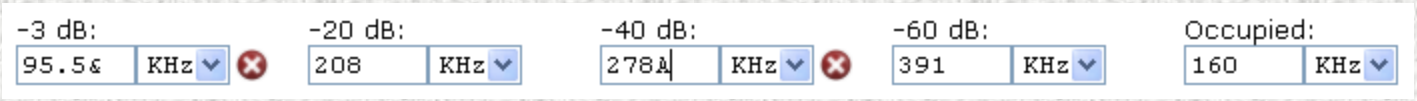
- **Version 1.0 Editor Capability Summary**
  - **Gathers DD1494 data in a stepwise-intuitive fashion**
  - **Data Quality - validation of required fields, syntax, and radio frequency (RF) engineering rules**
  - **Once a PM inputs the data an output .pdf data file can be provided to the SMO for processing**
    - **SMO can receive .pdf via BPM or e-mail**
    - **PDF export is nearly identical to DD1494 when printed**
    - **Printouts could be used for Host Nation Coordination**
  - **Not EL-CID compliant but can be used if EL-CID is not a practical means to collect the initial data from a layman or manufacturer**

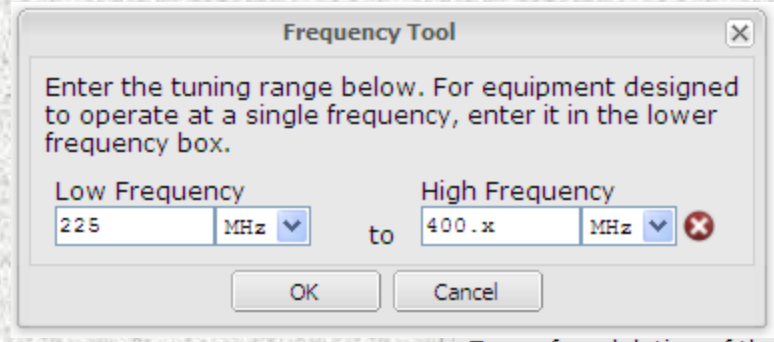
ESC Editor Version 1.0 Status

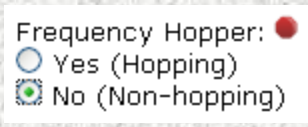
- **HQ DA host operational**
- **Available at https://esceditor.hqda.pentagon.mil**
  - **Contact stepstone-helpdesk@alionscience.com or (240) 646-3543 for access**
- **Service SMO decision of how and when to implement**
  - **Must consider El-CID implementation**
  - **New certification actions submitted to Army will use the editor to collect data from the manufacturer**

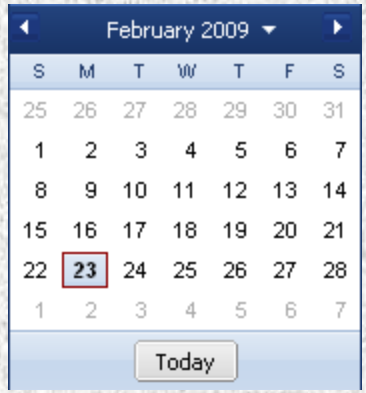
Editor Version 1.0

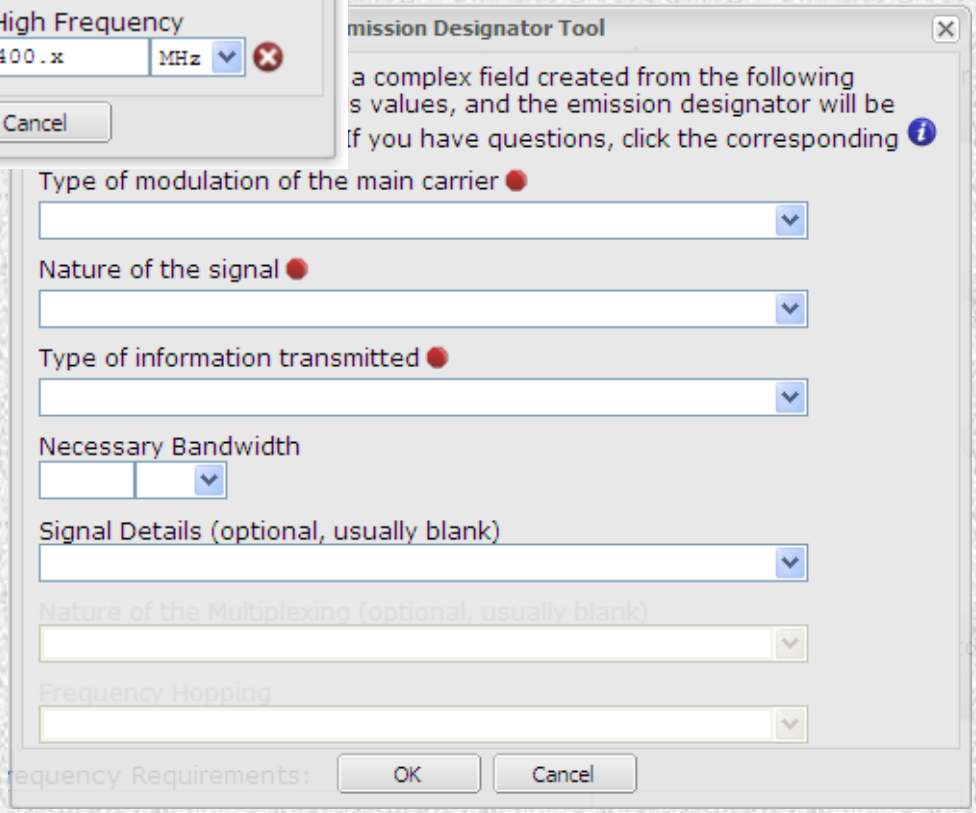











mission Designator Tool
a complex field created from the following
s values, and the emission designator will be
If you have questions, click the corresponding
Type of modulation of the main carrier
Nature of the signal
Type of information transmitted
Necessary Bandwidth
Signal Details (optional, usually blank)
Nature of the Multiplexing (optional, usually blank)
Frequency Hopping
requency Requirements:
OK
Cancel

ESC Editor Version 1.0

UNCLASSIFIED

EQUIPMENT SPECTRUM CERTIFICATION EDITOR

Add New ▾ | Preferences ▾ | Document | Save (Download) | Close

Overall Classification
UNCLASSIFIED

- DoD General Information
- View Summary
- Transmitter #1
- Receiver #1
- Antenna #1
- NTIA General Information

DoD General Information

What is the Application Title?

Provide a title that uniquely identifies the application.

If the system has a Joint Electronics Type Designation System (JETDS) nomenclature, provide that followed by a short description below (e.g., AN/TPQ-37 Artillery Locating Radar). If you do not know the JETDS identifier or it does not exist, provide the Manufacturer, Make, Model Number and short description (e.g., SAVI Model STR7200 Hand-Held Interrogator, Reader Module). Commercial-Off-The-Shelf systems usually do not have a JETDS identifier.

Sometimes a system is composed of multiple subsystems that require separate applications. In this situation the Application Title should represent the subsystem. If you need more information, contact your spectrum management office.

The NTIA General Information section will be automatically updated with the data entered into this field.

Application Title:

Back | Continue

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APPLICATION FOR EQUIPMENT FREQUENCY ALLOCATION	CLASSIFICATION UNCLASSIFIED	DATE	EC / Page 1 of 5

DOD GENERAL INFORMATION

TO	FROM

1. APPLICATION TITLE
2. SYSTEM NOMENCLATURE
3. STAGE OF ALLOCATION ☐ a. STAGE 1 CONCEPTUAL ☐ b. STAGE 2 EXPERIMENTAL ☐ c. STAGE 3 DEVELOPMENTAL ☐ d. STAGE 4 OPERATIONAL
4. FREQUENCY REQUIREMENTS

a. FREQUENCY(IES)	b. EMISSION DESIGNATORS

5. TARGET STARTING DATE FOR SUBSEQUENT STAGES a. STAGE 2 b. STAGE 3 c. STAGE 4
6. EXTENT OF USE
7. GEOGRAPHICAL AREA FOR a. STAGE 2 b. STAGE 3 c. STAGE 4
8. NUMBER OF UNITS a. STAGE 2 b. STAGE 3 c. STAGE 4
9. NUMBER OF UNITS OPERATING SIMULTANEOUSLY IN THE SAME ENVIRONMENT
10. OTHER J/F 12 APPLICATION ID(S) TO BE a. SUPERSEDED b. RELATED
11. IS THERE ANY OPERATIONAL REQUIREMENT AS DESCRIBED IN THE INSTRUCTIONS FOR PARAGRAPH 11? ☐ a. YES ☐ b. NO ☐ c. NAVAIL
12. NAMES AND TELEPHONE NUMBERS a. PROGRAM MANAGER NAME COMMERCIAL DSN EMAIL b. PROJECT ENGINEER NAME COMMERCIAL DSN EMAIL
13. REMARKS

DOWNGRADING INSTRUCTIONS	EC / CLASSIFICATION UNCLASSIFIED

ESC Editor Version 2.0

- **MCEB Pub 8 compliant to allow automatic data transfer in XML-schema to the JSC data repository**
- **Target Operational Date: 1 Oct 10**
- **Incremental beta releases planned**
  - **Initiates early feedback on Pub 8-based design**
  - **Supports Pub 8 socialization and issue resolution**
  - **Releases (notional): Antenna, Transmitter, DOD General Information, Receiver, Foreign Coordination, others**
    - **Antenna and Transmitter Beta - February 2010**

ESC Editor Version 2.0

- **Pub 8 implementation questions/challenges identified**
- **Technical panel under SD COI Pilot Working Group**
  - **Facilitates Pub 8 expert, ESC expert, and system developer collaboration**
  - **Ongoing issues are related to crosswalking current data as shown on DD FM 1494 to MCEB Pub 8 data fields**
- **Long term sustainment - 2 COAs**
  - **Possible GEMSIS initiative**
    - **Potential adoption of Stepstone by GEMSIS in FY 11**
  - **NII working an initiative SFT to find funding for FY 11 through the FYDP for a data capture tool and BPM**
    - **Evolution of Stepstone could follow this path if funding is programmed**

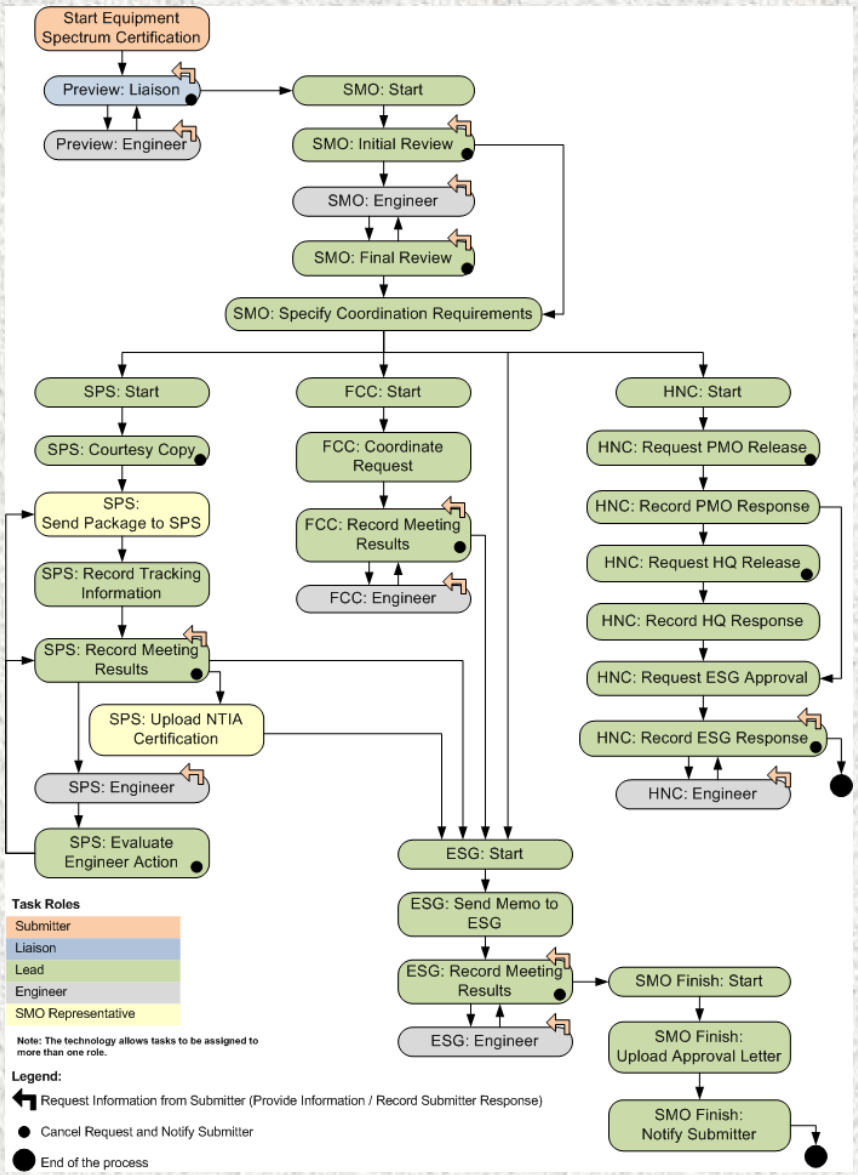
Business Process Manager (BPM)

- **BPM capability is designed to address the following capability gaps**
  - **Lack of transparency of actions in the process**
  - **Collaboration and workflow capabilities**
  - **Improved certification process metrics**
  - **Network-enabled centralized repository of ASMO ESC working papers/data**
- **Defense Knowledge Online (DKO) BPM application is the foundation for this capability**

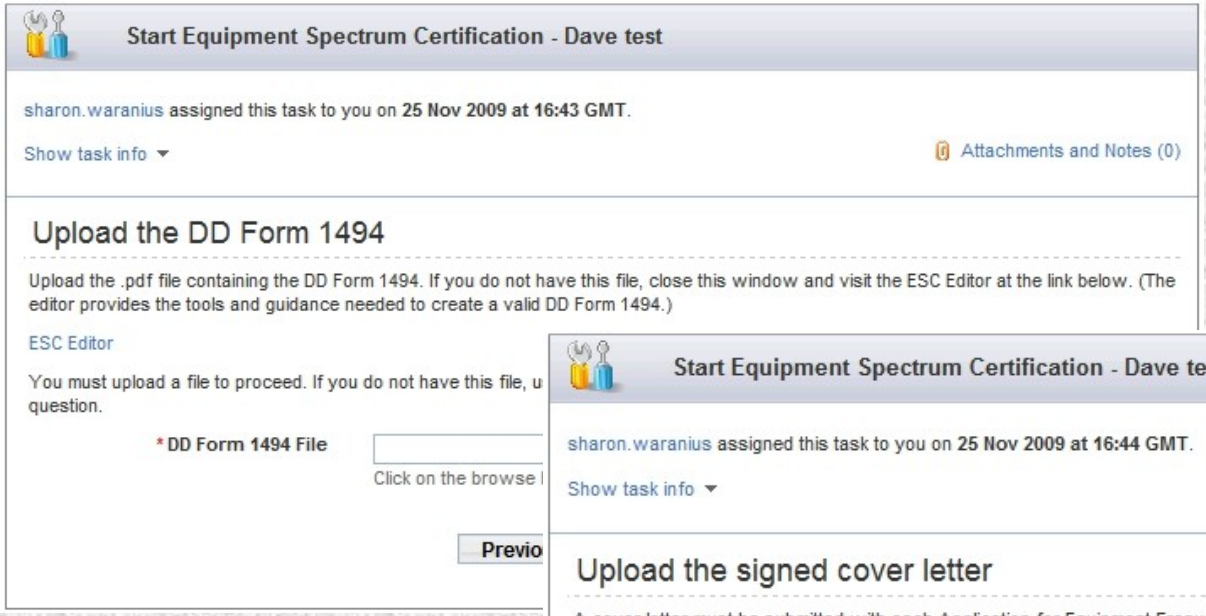
BPM Status

- **Deployed October 1, 2009**
- **Army is first user**
  - **Transition is turn-key approach – actions in cue uploaded**
  - **220+ Army requests in system to-date**
  - **Over the shoulder training at SMO**
  - **Army transition complete by 1 December**
- **Coordination with the Air Force and Navy begun**
  - **Gathering process model information for Air Force and Navy instances**
  - **Process manager modules will be tailored accordingly**

BPM Site Overview Task Map

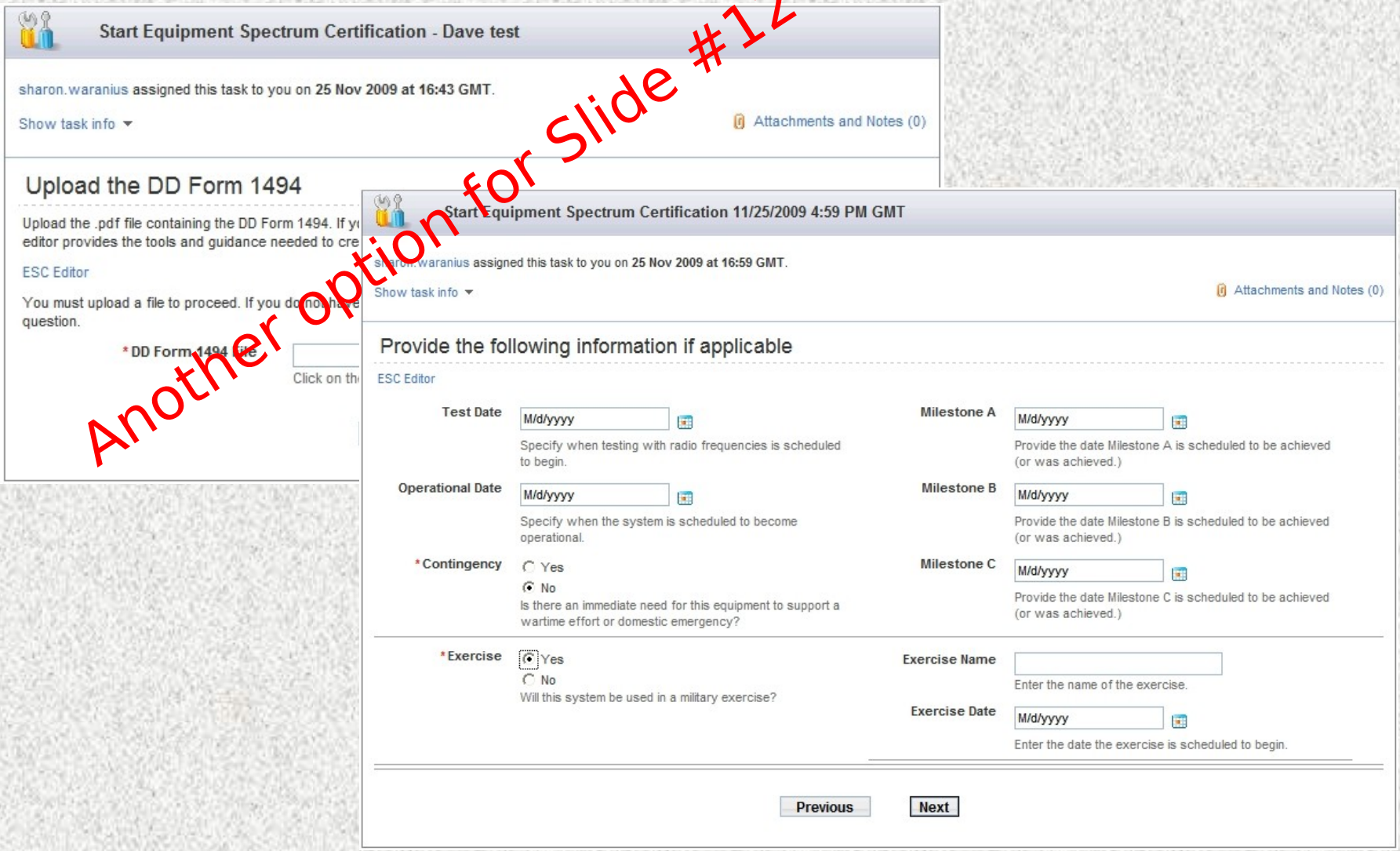


Start Spectrum Certification

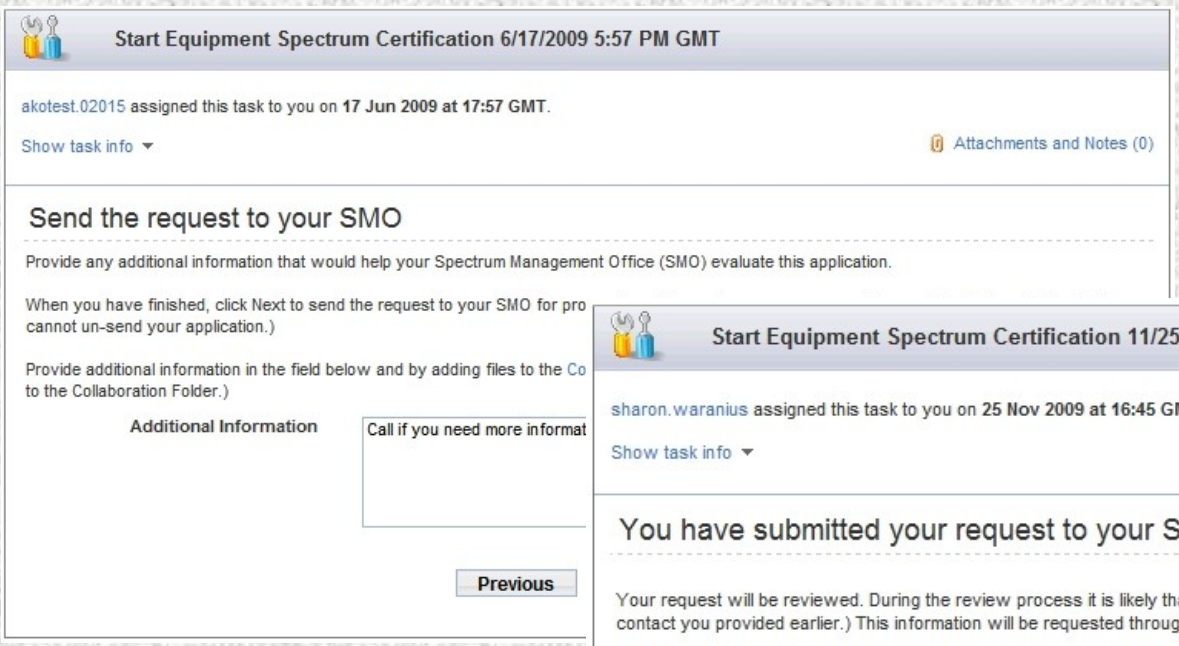

Start Equipment Spectrum Certification - Dave test
sharon.waranius assigned this task to you on 25 Nov 2009 at 16:43 GMT.
Show task info
Attachments and Notes (0)
Upload the DD Form 1494
Upload the .pdf file containing the DD Form 1494. If you do not have this file, close this window and visit the ESC Editor at the link below. (The editor provides the tools and guidance needed to create a valid DD Form 1494.)
ESC Editor
You must upload a file to proceed. If you do not have this file, u
question.
* DD Form 1494 File
Click on the browse
Previo

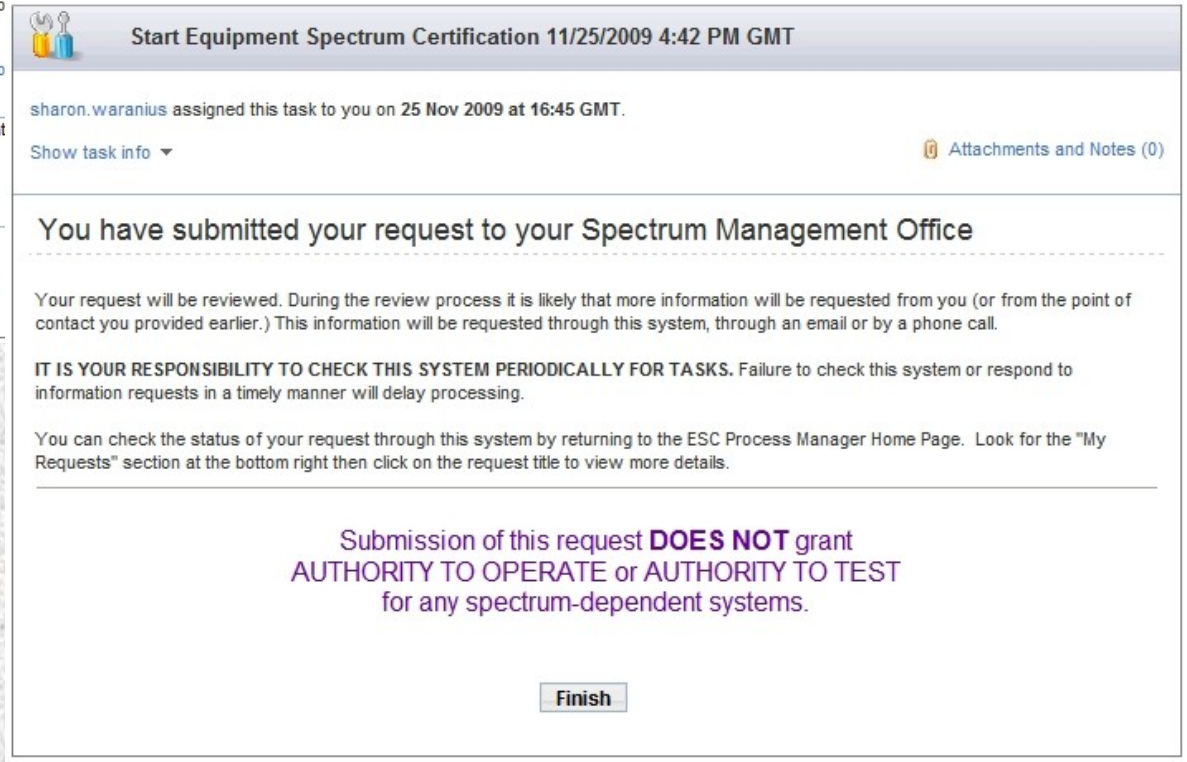
Start Equipment Spectrum Certification - Dave test
sharon.waranius assigned this task to you on 25 Nov 2009 at 16:44 GMT.
Show task info
Attachments and Notes (0)
Upload the signed cover letter
A cover letter must be submitted with each Application for Equipment Frequency Allocation. This letter must be from a government agency and must contain the following:
1. From (the submitting government agency name)
2. The name of the system
3. The government program manager's point of contact information (phone number and email address)
4. Any additional information that would facilitate the processing of this request
You must upload a file to proceed. If you do not have this file, use the "Previous" button to change your answer to the "Files to Upload" question.
* Signed Cover Letter File
Browse...
Click on the browse button to select a file from your local machine.
Previous
Next

Start Spectrum Certification


Start Equipment Spectrum Certification - Dave test
sharon.waranius assigned this task to you on 25 Nov 2009 at 16:43 GMT.
Show task info
Attachments and Notes (0)
Upload the DD Form 1494
Upload the .pdf file containing the DD Form 1494. If y
editor provides the tools and guidance needed to cre
ESC Editor
You must upload a file to proceed. If you do not
question.
* DD Form 1494 File
Click on th
Another option for Slide #12
Start Equipment Spectrum Certification 11/25/2009 4:59 PM GMT
sharon.waranius assigned this task to you on 25 Nov 2009 at 16:59 GMT.
Show task info
Attachments and Notes (0)
Provide the following information if applicable
ESC Editor
Test Date
M/d/yyyy
Specify when testing with radio frequencies is scheduled to begin.
Operational Date
M/d/yyyy
Specify when the system is scheduled to become operational.
* Contingency
Yes
No
Is there an immediate need for this equipment to support a wartime effort or domestic emergency?
* Exercise
Yes
No
Will this system be used in a military exercise?
Milestone A
M/d/yyyy
Provide the date Milestone A is scheduled to be achieved (or was achieved.)
Milestone B
M/d/yyyy
Provide the date Milestone B is scheduled to be achieved (or was achieved.)
Milestone C
M/d/yyyy
Provide the date Milestone C is scheduled to be achieved (or was achieved.)
Exercise Name
Enter the name of the exercise.
Exercise Date
M/d/yyyy
Enter the date the exercise is scheduled to begin.
Previous
Next

Start Spectrum Certification


Start Equipment Spectrum Certification 6/17/2009 5:57 PM GMT
akotest.02015 assigned this task to you on 17 Jun 2009 at 17:57 GMT.
Show task info
Attachments and Notes (0)
Send the request to your SMO
Provide any additional information that would help your Spectrum Management Office (SMO) evaluate this application.
When you have finished, click Next to send the request to your SMO for pro
cannot un-send your application.)
Provide additional information in the field below and by adding files to the Co
to the Collaboration Folder.)
Additional Information
Call if you need more informat
Previous


Start Equipment Spectrum Certification 11/25/2009 4:42 PM GMT
sharon.waranius assigned this task to you on 25 Nov 2009 at 16:45 GMT.
Show task info
Attachments and Notes (0)
You have submitted your request to your Spectrum Management Office
Your request will be reviewed. During the review process it is likely that more information will be requested from you (or from the point of contact you provided earlier.) This information will be requested through this system, through an email or by a phone call.
IT IS YOUR RESPONSIBILITY TO CHECK THIS SYSTEM PERIODICALLY FOR TASKS. Failure to check this system or respond to information requests in a timely manner will delay processing.
You can check the status of your request through this system by returning to the ESC Process Manager Home Page. Look for the "My Requests" section at the bottom right then click on the request title to view more details.
Submission of this request DOES NOT grant
AUTHORITY TO OPERATE or AUTHORITY TO TEST
for any spectrum-dependent systems.
Finish

Task Notification

Subject	Notification: New Task Assigned to Me and Others.
From	ako.notifications@us.army.mil
Date	Wednesday, June 17, 2009 17:04

AKO Notification Sent On 17 Jun 2009 21:04 GMT

Preview: Liaison - ACME Radio Corporation VLF Transmitter
Assigned on .
Priority: Normal

View this Task <https://bpmtest.us.army.mil/suite/task/7792>

This email has been sent automatically by AKO. Please do not reply to this message. To change your email notification settings, log in to AKO and then go to My Account -> Notification Settings.

Liaison gets an email

ESC Process Manager Home "My Tasks"

My Tasks

Columns ▾ Views ▾ Filters ▾

Task Name	From	Received	Process	Status
Preview: Liaison - ACME Radio Corporation VLF Transmitter	akotest.02015	17 Jun 2009 17:59	Preview - Main	Assigned
Preview: Liaison - Motorola PDR3500 Portable Repeater	akotest.02015	16 Jun 2009 16:49	Preview - Main	Assigned
Preview: Liaison - Motorola PDR3500 Portable Repeater	akotest.02015	15 Jun 2009 15:57	Preview - Main	Assigned

Reports Overview

Requests by Priority

Columns ▾ Views ▾ Filters ▾

1 - 25 of 31 [1] 2

Title	J/F 12#	Stage Class	SMO Priority	Request Type	Planned Test	Operational	Milestone A	Milestone B	Milestone C	CENTCOM AOR
Motorolla UHF Antenna	J/F 12/12345/2	1U	High	NTH			Jun 27, 2009			Yes
AN/TPX-54 BEACON PROCESSOR GROUP, (IFF SUBSYSTEM OF AN/FPS-117 RADAR SYSTEM)	J/F12/07601	1U	High	CERTIFICATION	Jun 1, 2009	Jun 2, 2009	Jun 3, 2009	Jun 4, 2009	Jun 5, 2009	Yes
Motorola PDR3500 Portable Repeater	J/F 12/07982	1U	High		Sep 17, 2009	Nov 16, 2009				Yes
Enhanced Range Application Program (EnRAP) Data Link System	J/F 12/07963	1U	Medium	CERTIFICATION	Aug 5, 2009	Sep 5, 2009	Jul 1, 2009	Aug 5, 2009	Aug 25, 2009	Yes
POSITION LOCATING REPORTING SYSTEM (PLRS)/ENHANCED PLRS (EPLRS) AN/TSQ-129, AN/VSQ-2C(V)2	J/F 12/04842/6	1U	High	CERTIFICATION	Nov 20, 2009	Mar 2, 2010				Yes
Sony QRT3500 Portable Repeater		1U	High							No
RQ-8B TUAV Video Link -3		2U								No
Alcatel MDR-8708s-155 Microwave Radio	J/F 12/04332/2	1U	High							No
AN/TPX-54 ROCKWELL PROCESSOR GROUP, (IFF SUBSYSTEM OF AN/FPS-117 RADAR SYSTEM)	J/F 12/33333/12	1U	High	NTH	Aug 1, 2009	Aug 2, 2009	Aug 3, 2009	Aug 4, 2009	Aug 5, 2009	No
EYM HNC Test2	12345	1U	High	HNC						No
Erikson V325 Wireless	J/F 12/06574/6	2U	Medium		Jun 3, 2010	Nov 17, 2010		Oct 13, 2009		No
Air Route Surveillance Radar (ARSR-3)	J/F 07683	1U	High	CERTIFICATION	Jun 8, 2009	Jun 9, 2009	Jun 10, 2009	Jun 11, 2009	Jun 12, 2009	No
AN/ARC-232(V)/RT-1818	J/F 12/07970	3C	High	CERTIFICATION	Jun 8, 2009	Jun 9, 2009	Jun 10, 2009	Jun 11, 2009	Jun 12, 2009	No
RQ-7A TUAV Video Link	J/F 12/07989	1U	High	CERTIFICATION	Jun 8, 2009	Jun 9, 2009	Jun 10, 2009	Jun 11, 2009	Jun 12, 2009	No
Motorolla Fixed Repeater	J/F 12/01245/2	1U	High		Oct 13, 2010					No
Wireless LAN Components	J/F 07665/4	1U	High	CERTIFICATION						No
FalconSat-2	J/F 07961	1U	High							No
Motorola PDR3500 Portable Repeater		1U	High							No
Harris Constellation 7 GHz Digital Microwave Radio	J/F 12/07983	3U	High		Apr 26, 2010					No

Questions?